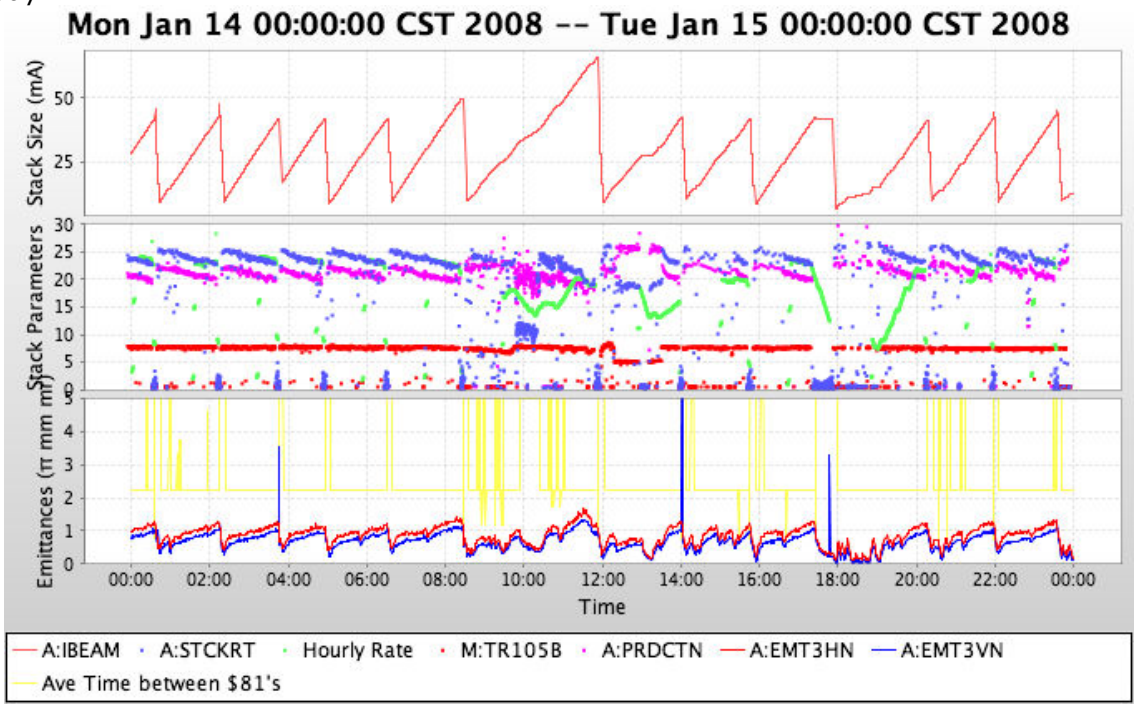
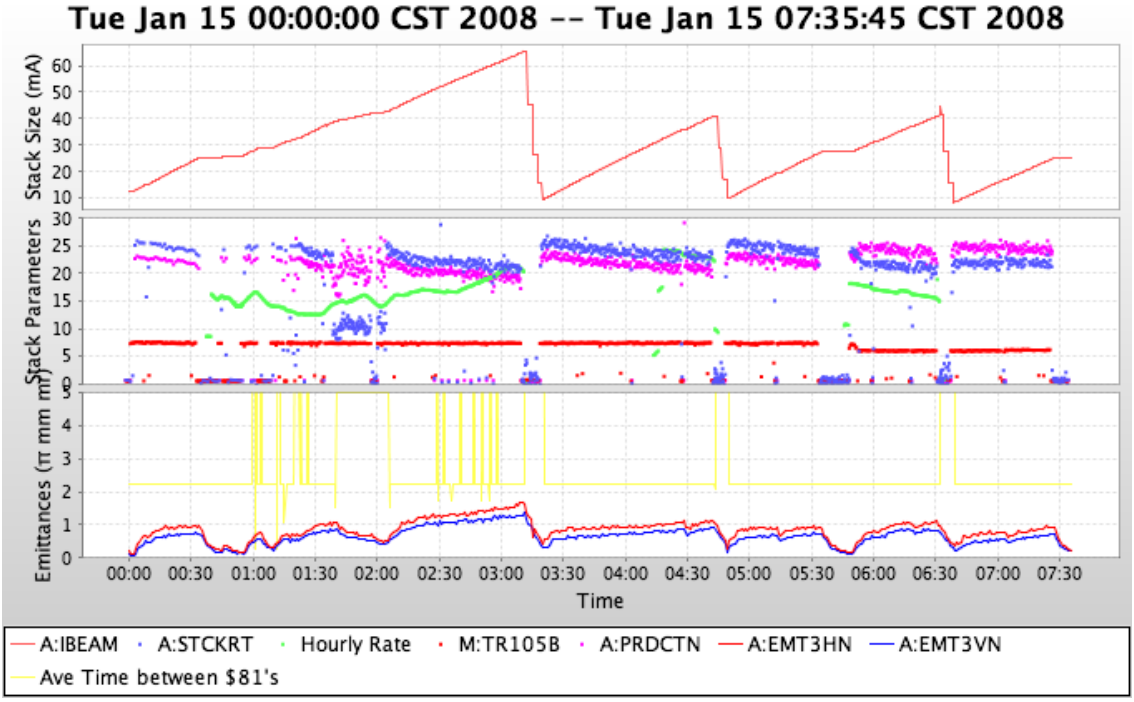
2008-14-15 Morning Pbar Summary

Tuesday, January 15, 2008
7:30 AM

- Paul's Plots (http://www-bd.fnal.gov/pplot/index.html):
  - Most in an hour: 23.68 mA at Tue Jan 15 04:20:01 CST 2008
  - Best: 24.69 mA on 09-Jan-08
  - Average Production 20.57 e-6/proton Best: 23.53 e-6/proton on 11/11/2007
  - Average Protons on Target 5.98 e12 Best: 8.77 e12 on 07/24/2007
  - Largest Stack 65.69 mA Best: 271.01 mA on 11/14/2007
- Al's Numbers (http://www-bd.fnal.gov/appix/start?p=60000377&n=55000715):
  - Stacking
    - Pbars stacked: 405.41 E10
    - Time stacking: 21.85 Hr
    - Average stacking rate: 18.55 E10/Hr
  - Uptime
    - Number of pulses while in stacking mode: 34189
    - Number of pulses with beam: 28986
    - Fraction of up pulses was: 84.78%
  - The uptime's effect on the stacking numbers
    - Corrected time stacking: 18.53 Hr
    - Possible average stacking rate: 21.88 E10/Hr
  - Recycler Transfers
    - Pbars sent to the Recycler: 411.87 E10
    - Number of transfers : 35
    - Number of transfer sets: 11
    - Average Number of transfer per set: 3.18
    - Time taken to shoot: 01.93 Hr
    - Time per set of transfers: 10.51 min
    - Transfer efficiency: 96.26%
  - Other Info
    - Average POT : 6.64 E12
    - Average production: 21.05 pbars/E6 protons
- Yesterday



- Today



- Studies
  - DVM testsed sequencer scripts for storing Pbars in the Debuncher and resturning us to stacking. Should be ready for measurements on Wednesday.
  - Vladimir has an AP3-P1 optic change. If the fit is realistic, the horizontal emittance dilution in the MI is about 40%, vertical - 13%. Correction would bring dilution in MI down to 5% and improve aperture in the beam line.